

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498546

Luminaire Tested: MAE-G-2-120-2STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

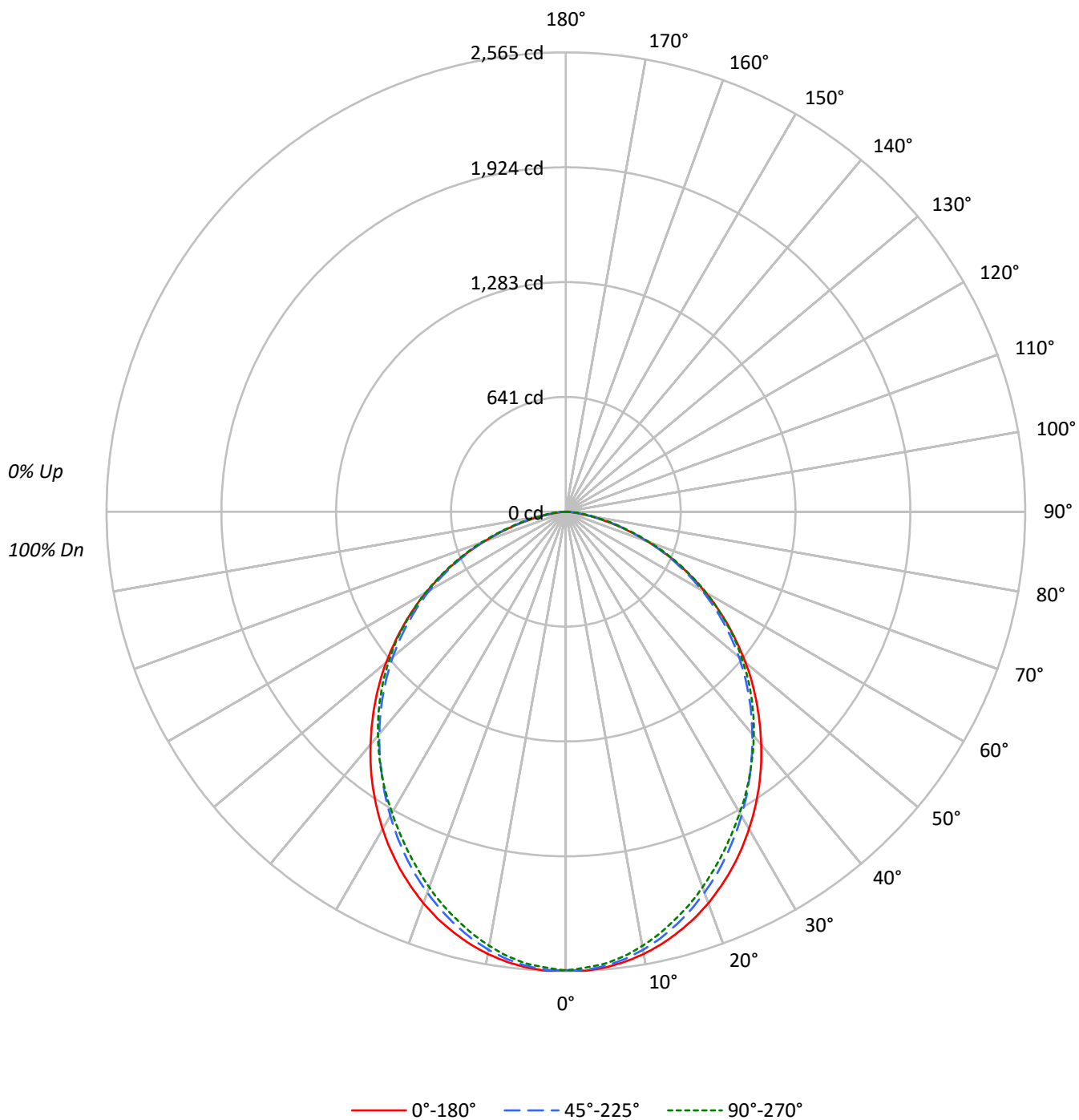
Lumens per Lamp: N/A
Luminaire Lumens: 6192.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6889	6889	6889
5°	6899	6875	6840
10°	6852	6786	6725
15°	6768	6649	6566
20°	6660	6479	6391
25°	6521	6293	6202
30°	6357	6093	6032
35°	6173	5887	5883
40°	5961	5691	5733
45°	5732	5493	5577
50°	5484	5280	5386
55°	5196	5031	5160
60°	4851	4725	4879
65°	4416	4329	4471
70°	3821	3814	3923
75°	3053	3149	3202
80°	2080	2278	2386
85°	1084	1593	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	3.9
10°-20°	672.3	10.9
20°-30°	980.3	15.8
30°-40°	1133.7	18.3
40°-50°	1128.7	18.2
50°-60°	970.4	15.7
60°-70°	680.2	11.0
70°-80°	321.9	5.2
80°-90°	64.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1893.1	30.6
0°-40°	3026.9	48.9
0°-60°	5125.9	82.8
0°-90°	6192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2554	2546	2545	2528	2532	242
15°	2430	2412	2386	2356	2357	685
25°	2196	2167	2120	2088	2089	1011
35°	1879	1840	1792	1782	1791	1174
45°	1506	1470	1443	1454	1465	1162
55°	1108	1078	1072	1091	1100	989
65°	694	676	680	694	702	686
75°	294	287	303	307	308	316
85°	35	40	52	63	67	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2560.2	2560.2	2560.2	2560.2	2560.2
2.5°	2565.1	2558.1	2560.2	2547.4	2547.7
5°	2554.0	2545.7	2545.1	2528.5	2532.2
7.5°	2534.5	2524.3	2519.0	2499.7	2502.9
10°	2507.5	2494.4	2483.6	2459.6	2461.0
12.5°	2472.8	2457.3	2439.8	2411.6	2413.8
15°	2429.5	2411.7	2386.5	2356.0	2356.7
17.5°	2381.9	2361.7	2327.5	2294.9	2298.1
20°	2325.7	2302.8	2262.5	2228.7	2231.7
22.5°	2263.3	2236.8	2194.3	2160.2	2160.8
25°	2196.4	2166.8	2119.6	2087.7	2088.7
27.5°	2124.0	2090.9	2041.8	2012.4	2015.2
30°	2046.0	2010.9	1960.8	1936.6	1941.2
32.5°	1964.0	1927.5	1878.2	1861.1	1868.7
35°	1879.0	1839.9	1791.9	1782.1	1790.7
37.5°	1790.3	1751.7	1706.6	1703.9	1712.7
40°	1696.9	1659.7	1620.1	1622.1	1632.1
42.5°	1602.6	1566.3	1532.7	1539.7	1550.4
45°	1506.3	1470.1	1443.4	1454.0	1465.4
47.5°	1410.3	1374.2	1353.8	1367.5	1377.7
50°	1309.9	1276.5	1261.2	1277.1	1286.6
52.5°	1207.7	1176.6	1167.5	1185.3	1198.2
55°	1107.5	1077.8	1072.3	1090.6	1099.8
57.5°	1004.2	979.3	976.7	993.9	1003.5
60°	901.3	877.9	878.0	896.2	906.5
62.5°	797.2	776.1	779.5	796.7	804.8
65°	693.6	676.0	679.9	694.0	702.1
67.5°	591.0	575.1	582.5	598.0	602.1
70°	485.6	473.5	484.7	496.4	498.6
72.5°	388.0	377.4	390.9	399.3	399.5
75°	293.6	287.0	302.9	306.6	308.0
77.5°	207.7	207.1	219.0	223.1	225.0
80°	134.2	138.6	147.0	153.3	154.0
82.5°	75.9	81.1	89.7	102.4	107.3
85°	35.1	40.5	51.6	62.6	67.4
87.5°	11.9	15.9	21.8	23.6	22.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.63	19.22	18.00	19.53	19.85	17.72	19.30	18.09	19.62	19.93
	3H	19.11	20.53	19.48	20.86	21.22	19.24	20.67	19.62	21.00	21.36
	4H	19.54	20.88	19.94	21.22	21.60	19.70	21.04	20.10	21.39	21.77
	6H	19.75	20.99	20.16	21.35	21.75	19.95	21.19	20.37	21.56	21.95
	8H	19.78	20.96	20.21	21.35	21.75	20.02	21.20	20.44	21.59	21.99
	12H	19.78	20.91	20.21	21.29	21.72	20.06	21.19	20.49	21.57	22.00
4H	2H	18.18	19.51	18.58	19.86	20.24	18.25	19.58	18.64	19.93	20.31
	3H	19.83	20.94	20.24	21.34	21.74	19.96	21.07	20.37	21.47	21.87
	4H	20.35	21.35	20.78	21.76	22.20	20.52	21.52	20.95	21.93	22.37
	6H	20.64	21.51	21.09	21.95	22.41	20.86	21.73	21.31	22.17	22.63
	8H	20.69	21.50	21.15	21.94	22.41	20.95	21.76	21.41	22.21	22.67
	12H	20.70	21.43	21.18	21.91	22.38	21.02	21.75	21.50	22.23	22.70
8H	4H	20.54	21.36	21.00	21.80	22.27	20.70	21.51	21.16	21.96	22.42
	6H	20.90	21.57	21.39	22.06	22.54	21.11	21.78	21.60	22.27	22.75
	8H	20.97	21.58	21.48	22.08	22.57	21.24	21.84	21.75	22.35	22.84
	12H	21.01	21.55	21.52	22.04	22.60	21.36	21.89	21.87	22.38	22.95
12H	4H	20.55	21.28	21.03	21.75	22.22	20.70	21.43	21.18	21.90	22.37
	6H	20.90	21.51	21.42	22.02	22.50	21.11	21.71	21.62	22.22	22.71
	8H	21.02	21.55	21.52	22.04	22.60	21.28	21.81	21.79	22.31	22.87